

REACH

T38S-R14W-S14SE

REACH

**Valley and Channel Summary**

Valley Characteristics (Percent Reach Length)

| <u>Narrow Valley Floor</u> |    | <u>Broad Valley Floor</u> |      |
|----------------------------|----|---------------------------|------|
| Steep V-shape              | 0% | Constraining Terraces     | 100% |
| Moderate V-shape           | 0% | Multiple Terraces         | 0%   |
| Open V-shape               | 0% | Wide Floodplain           | 0%   |
| Valley Width Index 2.8     |    | VWI Range: 1.2 - 4        |      |

Channel Morphology (Percent Reach Length)

| <u>Constrained</u> |      | <u>Unconstrained</u> |    |
|--------------------|------|----------------------|----|
| Hillslope          | 0%   | Single Channel       | 0% |
| Bedrock            | 0%   | Multiple Channel     | 0% |
| Terrace            | 0%   | Braided Channel      | 0% |
| Alt. Terrace/Hill  | 100% |                      |    |
| Landuse            | 0%   |                      |    |

Channel Characteristics

| <u>Type</u> | <u>Length (m)</u> | <u>Area (m2)</u> | <u>Dry Units</u> |
|-------------|-------------------|------------------|------------------|
| Primary     | 532               | 3,286            | 0                |
| Secondary   | 98                | 323              | 5                |

Channel Dimensions (m)

| <u>Wetted</u> |      | <u>Active</u> |      | <u>Floodprone</u> | <u>First Terrace</u> |
|---------------|------|---------------|------|-------------------|----------------------|
| Width         | 5.6  | Width         | 9.5  | 15.7              | 21.6                 |
| Depth         | 0.44 | Height        | 0.6  | 1.1               | 1.1                  |
|               |      | W:D ratio     | 17.4 | Entrenchment      | 1.6                  |

|                     |      |                     |             |
|---------------------|------|---------------------|-------------|
| Stream Flow Type:   | MF   | Water temp (C):     | 10.0 - 10.0 |
| Avg. Unit Gradient: | 2.3% | Habitat Units/100m: | 7.7         |

**Riparian, Bank, and Wood Summary**

|                      | <u>Primary</u> | <u>Secondary</u> |
|----------------------|----------------|------------------|
| Land Use:            | ST             |                  |
| Riparian Vegetation: | D15            | S                |

Bank Condition and Shade

| <u>Bank Status</u> | <u>Percent Reach Length</u> | <u>Shade (% of 180)</u> |
|--------------------|-----------------------------|-------------------------|
| Actively Eroding:  |                             | Reach avg:              |
| Undercut Banks:    |                             | Range: -                |

Large Wood Debris

|                             | <u>Total</u> | <u>Total / 100m</u> |
|-----------------------------|--------------|---------------------|
| All pieces (>=3m x 0.15m):  | 88           | 16.6                |
| Volume (m <sup>3</sup> ):   | 186          | 35.0                |
| Key pieces (>=10m x 0.60m): | 27           | 5.1                 |

OREGON DEPARTMENT OF FISH AND WILDLIFE

DEEP CREEK PHASE 1 POST-TX (S-132)

HABITAT INVENTORY

Report Date: 5/6/03

Survey Date:

2/25/03

| REACH               |                 | T38S-R14W-S14SE |              |              |                           |                      |                     | REACH     |           |           |           |          |          |
|---------------------|-----------------|-----------------|--------------|--------------|---------------------------|----------------------|---------------------|-----------|-----------|-----------|-----------|----------|----------|
| Habitat Type        | Number<br>Units | HABITAT DETAIL  |              |              |                           |                      |                     | Substrate |           |           |           |          |          |
|                     |                 | Total           | Avg          | Avg          | Total                     | Large                | Percent Wetted Area |           |           |           |           |          |          |
|                     |                 | Length<br>(m)   | Width<br>(m) | Depth<br>(m) | Area<br>(m <sup>2</sup> ) | Boulders<br>(#>0.5m) | S/O                 | Snd       | Grvl      | Cbl       | Bldr      | Bdrk     |          |
| DRY CHANNEL         | 3               | 76              | 3.5          | 0.00         | 281                       | 0                    | 2                   | 24        | 37        | 37        | 0         | 0        |          |
| POOL-LATERAL SCOUR  | 7               | 52              | 5.7          | 0.81         | 298                       | 0                    | 4                   | 13        | 44        | 30        | 9         | 1        |          |
| POOL-PLUNGE         | 3               | 22              | 8.1          | 1.10         | 180                       | 0                    | 0                   | 10        | 60        | 28        | 2         | 0        |          |
| POOL-STRAIGHT SCOUR | 1               | 9               | 6.0          | 1.20         | 54                        | 0                    | 5                   | 14        | 33        | 48        | 0         | 0        |          |
| PUDDLED UNIT        | 2               | 22              | 1.9          | 0.15         | 42                        | 0                    | 3                   | 10        | 26        | 46        | 15        | 0        |          |
| RAPID/BOULDERS      | 7               | 91              | 6.0          | 0.29         | 540                       | 0                    | 0                   | 7         | 37        | 48        | 8         | 0        |          |
| RIFFLE              | 16              | 353             | 6.1          | 0.30         | 2,205                     | 0                    | 1                   | 9         | 38        | 45        | 7         | 0        |          |
| STEP/STRUCTURE      | 2               | 4               | 2.4          | 0.30         | 9                         | 0                    | 0                   | 3         | 37        | 53        | 8         | 0        |          |
| <b>Total:</b>       | <b>41</b>       | <b>630</b>      | <b>5.6</b>   | <b>0.44</b>  | <b>3,609</b>              | <b>0</b>             | <b>Avg</b>          | <b>1</b>  | <b>10</b> | <b>40</b> | <b>42</b> | <b>7</b> | <b>0</b> |

| HABITAT SUMMARY   |                 |                        |                     |                     |                   |         |                |                          |
|-------------------|-----------------|------------------------|---------------------|---------------------|-------------------|---------|----------------|--------------------------|
| Habitat Group     | Number<br>Units | Total<br>Length<br>(m) | Avg<br>Width<br>(m) | Avg<br>Depth<br>(m) | Wetted Area       |         | Large Boulders |                          |
|                   |                 |                        |                     |                     | (m <sup>2</sup> ) | Percent | Number         | (# / 100m <sup>2</sup> ) |
| Dammed & BW Pools | 0               | 0                      |                     |                     | 0                 | 0.00%   | 0              | 0.0                      |
| Scour Pools       | 11              | 83                     | 6.4                 | 0.93                | 532               | 14.73%  | 0              | 0.0                      |
| Glides            | 0               | 0                      |                     |                     | 0                 | 0.00%   | 0              | 0.0                      |
| Riffles           | 16              | 353                    | 6.1                 | 0.30                | 2,205             | 61.10%  | 0              | 0.0                      |
| Rapids            | 7               | 91                     | 6.0                 | 0.29                | 540               | 14.97%  | 0              | 0.0                      |
| Cascades          | 0               | 0                      |                     |                     | 0                 | 0.00%   | 0              | 0.0                      |
| Step/Falls        | 2               | 4                      | 2.4                 | 0.30                | 9                 | 0.26%   | 0              | 0.0                      |
| Dry               | 5               | 98                     | 2.9                 | 0.06                | 323               | 8.95%   | 0              | 0.0                      |
| Culverts          | 0               | 0                      |                     |                     | 0                 | 0.00%   | 0              | 0.0                      |

| POOL SUMMARY                          |              |               |
|---------------------------------------|--------------|---------------|
|                                       | <u>Total</u> | <u># / Km</u> |
| All Pools:                            | 11           | 20.7          |
| Pools >=1m deep:                      | 4            | 7.5           |
| Complex pools (LWD pieces>=3):        | 4            | 7.5           |
| Pool frequency (channel widths/pool): | 6.0          |               |
| Residual pool depth (avg):            | 0.62         |               |

**STREAM SUMMARY**

**DEEP CREEK PHASE 1 POST-TX (S-132)**

| Number<br>Units | Total<br>Length<br>(m) | Avg<br>Width<br>(m) | Avg<br>Depth<br>(m) | Total<br>Area<br>(m <sup>2</sup> ) | Substrate           |     |      |     |      |      | Large<br>Boulders<br>(#>0.5m) |
|-----------------|------------------------|---------------------|---------------------|------------------------------------|---------------------|-----|------|-----|------|------|-------------------------------|
|                 |                        |                     |                     |                                    | Percent Wetted Area |     |      |     |      |      |                               |
|                 |                        |                     |                     |                                    | S/O                 | Snd | Grvl | Cbl | Bldr | Bdrk |                               |
| 41              | 630                    | 5.6                 | 0.44                | 3,609                              | 1                   | 10  | 40   | 42  | 7    | 0    |                               |

| Habitat Group     | Wetted Area       |         |
|-------------------|-------------------|---------|
|                   | (m <sup>2</sup> ) | Percent |
| Dammed & BW Pools | 0                 | 0.00%   |
| Scour Pools       | 532               | 14.73%  |
| Glides            | 0                 | 0.00%   |
| Riffles           | 2,205             | 61.10%  |
| Rapids            | 540               | 14.97%  |
| Cascades          | 0                 | 0.00%   |
| Step/Falls        | 9                 | 0.26%   |
| Dry               | 323               | 8.95%   |
| Culverts          | 0                 | 0.00%   |

# Comment Summary

## Restoration Monitoring Sites 2003

**MONITORING AREA: 5-SC    SITE ID: 132    DEEP CREEK PHASE 1 POST-TX (S-132)**

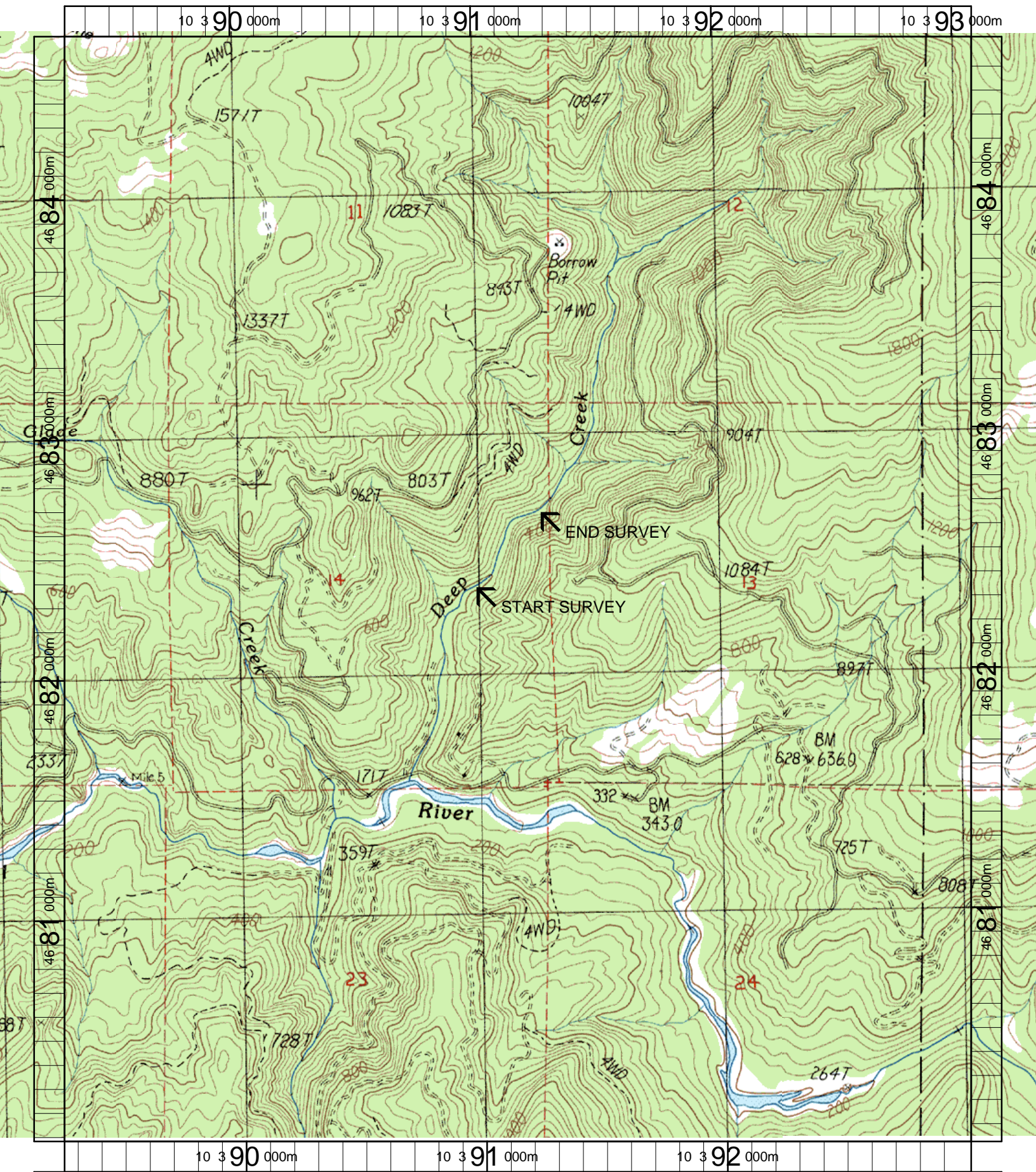
| <u>UNIT#</u> | <u>TYPE</u> | <u>CHAN</u> | <u>DIST. (m)</u> | <u>COMMENTS</u> | <u>NOTE ESTIMATOR</u>   | <u>NOTE NUMERATOR</u> |
|--------------|-------------|-------------|------------------|-----------------|-------------------------|-----------------------|
| 1            | RB          | 00          | 24               |                 | START @ SIGN/           |                       |
| 5            | LP          | 01          | 96.2             | HS, DJ          | DJ SPANS U5+6           |                       |
| 8            | DC          | 02          | 109.2            | HS              | ONE LOG-OLD PC          |                       |
| 10           | PP          | 00          | 139.7            | HS              | 2 LOGS, U-SHAPED        |                       |
| 11           | SS          | 00          | 142.7            |                 | FLOWS UNDER             |                       |
| 13           | PP          | 00          | 159.7            | HS              | 5 PCS-LOGS              |                       |
| 14           | SS          | 00          | 161.1            |                 | H=.4M                   |                       |
| 16           | PP          | 00          | 176.2            |                 | EST DEPTH               |                       |
| 18           | LP          | 00          | 194              | HS              | WD, BLDRS, SITE 5S, DFS |                       |
| 19           | RB          | 00          | 203.7            |                 | OLD BURIED HS           |                       |
| 20           | LP          | 00          | 209.4            | HS, DJ          | ORANGE FLAG, SITE 4     |                       |
| 23           | DC          | 02          | 262.4            |                 | /02                     |                       |
| 24           | SP          | 01          | 271.4            | DJ, HS          |                         |                       |
| 26           | PD          | 02          | 296.4            |                 | 02/                     |                       |
| 27           | DC          | 02          | 296.4            |                 | 02/                     |                       |
| 31           | RI          | 00          | 396.4            | SS/             |                         |                       |
| 34           | RI          | 00          | 438.4            |                 | ORANGE FLAG             |                       |
| 36           | RI          | 00          | 458.2            |                 | /CEDAR                  |                       |
| 37           | LP          | 00          | 463.2            | DJ              | RTWADS=DJ               |                       |
| 38           | RI          | 00          | 488.2            |                 | HS CLOSING IN           |                       |
| 40           | LP          | 00          | 522.9            |                 | T=9C                    |                       |

# Comment Summary

## Restoration Monitoring Sites 2003

MONITORING AREA: 5-SC SITE ID: 132 DEEP CREEK PHASE 1 POST-TX (S-132)

| <u>UNIT#</u> | <u>TYPE</u> | <u>CHAN</u> | <u>DIST. (m)</u> | <u>COMMENTS</u> | <u>NOTE ESTIMATOR</u> | <u>NOTE NUMERATOR</u> |
|--------------|-------------|-------------|------------------|-----------------|-----------------------|-----------------------|
| 41           | RI          | 00          | 531.6            |                 | END @ DRY /TJ, SIGN/  |                       |



Name: SUNDOWN MT  
 Date: 6/18/2003  
 Scale: 1 inch equals 1666 feet

Location: 10 391159 E 4682357 N  
 Caption: DEEP CREEK PHASE 1 RESTORATION SITE - PISTOL RIVER BASIN